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tion, he should require that the objects obtained shall be placed in some of the museums of New York or Washington. The educational interests of our country require all the aid that collections and museums can give, and future generations will doubtless be increasingly awake to their importance, and will hold in high esteem those who create or sustain them.

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RECENT LITERATURE.

THE ANNUAL REPORT OF THE HAYDEN SURVEY FOR 1877.¹—This is another permanently valuable contribution to the geological literature of the Western United States. The unusually fine and numerous illustrations accompanying it, add much to its value. Part I, geology and palæontology, comprises over 600 pages, illustrated by seventy-six admirably executed maps and sections, and ten plates illustrating invertebrate fossils.

This part is chiefly made up of reports by the chiefs of divisions and districts, of which there are five. Dr. Endlich, in his Report on the Geology of the Sweetwater district, seems to have given special attention to the mineral resources and economic geology of that region, and it is illustrated by six admirably executed geological sections of the country traversed. Dr. White's Report on the Cretaceous fossils, illustrated by ten magnificent plates, needs no comment, as the author's well-known reputation is a sufficient guarantee of the quality of the work. Orestes St. John has had charge of the work of the Téton division, which seems to have been very thoroughly done, being illustrated by thirty-nine maps and sections of the region traversed by his party. The Green River division, in charge of Dr. A. C. Peale has done good work, care being taken to give proper credit to those who had previously worked in the same field; twenty-nine maps and sections, together with analytical and ordinary landscape views, illustrate Dr. Peale's Report on the Green River country.

Part II relates to the topographical work carried on by A. D. Wilson and Henry Gannett, topographers of the survey, by whom the work of triangulation seems to have been conducted with great care. Altogether, the volume before us is a good example of the high degree of skill attained by Dr. Hayden and his assistants, not only in carrying on their field work on a large scale, but also in presenting its results in graphic and readily available form for the use of the reading public.

RECENT BOOKS AND PAMPHLETS.—Palæontographica. Band XXVI, Heft 3. Beiträge zur Kenntniss der fossilen Fische der Karpathen, Von Dragutin Kramber.

¹ *Eleventh Annual Report of the United States Geological and Geographical Survey of the Territories, embracing Idaho and Wyoming*, being a Report of Progress of the Exploration for the year 1877. By F. V. Hayden, United States Geologist. 8vo, pp. 720, 86 maps, plates and sections. Washington, D. C., 1879. Advance copy, issued April, 1880.)

ger, 4to, pp. 53-68. Heft 4. Die radiolarien Fauna der Tripoli von Grotte, Provinz Girgenti in Sicilien, von Emil Stöhr. 4to, pp. 70-124, pl. vii. Cassel. Theod. Fischer. 1880.

Étude sur le Discoglosse. Par Fernand Lataste. 8vo. pp. 71, pl. iii. (Extr. des Actes de la Société Linnéenne de Bordeaux, t. xxxiii, 1879.) From the author.

On the Iron Ore of Bartlett, N. H. By J. H. Huntington. 8vo. pp. 288-292. (Extr. from Proc. Bost. Soc. Nat. Hist. xx. 1879.) From the author.

The Ethmoid Bone in Bats. By Harrison Allen, M.D. 8vo. pp. 2. (Extr. Bull. Mus. Comp. Zoology.) Feb. 1880. From the author.

On the Elongation and Plasticity of Pebbles in Conglomerates. By M. E. Wadsworth, Ph.D. 8vo. pp. 313-318. (Ext. Proc. Bost. Soc. Nat. Hist.) From the author.

The Young Scientist. Vol. I, No. 9. New York, Sept. 1878. From the publishers.

Annual Report of the Geological Survey of Wisconsin, for the year 1879. By T. C. Chamberlin, Chief Geologist. 8vo. pp. 72. Madison, Wis. 1880. From the author. With atlas in folio.

Proceedings of the Poughkeepsie Society of Natural Sciences. From Oct. 1st., 1878 to July 1st, 1879. 8vo. pp. 72. From the society.

Etude sur les Poissons et les Reptiles des Terrains Crétacés et Jurassiques supérieurs de l'Yonne. Par M. H-E. Sauvage. 8vo. pp. 20-84, pl. viii. (Ext. Bull. Soc. des Sc. hist. et nat. de l'Yonne 3 ser, t. I.) From the author.

Matériaux pour l'Histoire des Temps Quaternaires. Par Albert Gaudry. 2^e Fascicule. De l'existence des Saigas en France a l'époque quaternaire. 4to, pp. 65-82, pls. iv. Paris, 1880. From the author.

Physics and Politics; an application of the principles of natural selection and heredity to political society. By Walter Bagehot. (No. 3 of Vol. I of Humboldt Library of Popular Science Literature.) J. Fitzgerald & Co., New York. 1880.

On the Fertilization of Yucca. By Thomas Meehan. 8vo. pp. 4. (Repr. No. Am. Entomologist.) From the author.

Proceedings of the Royal Geographical Society and Monthly Record of Geography. Nos. 2 and 3, Vol. II, 1880. From the society.

On a new Genus and Species of Harpacticida. By P. O. Christopher Aurivillius. 8vo. pp. 16, pls. iii. (Ext. K. Svenska Vet. Akad. Handlingar. Bd. 5, No. 18.) Stockholm. 1879. From the author.

Statuts et Règlement de la Société Zoologique de France. Fondée a Paris en 1876. 8vo. pp. 14. Paris, 1877. From the society.

United States Entomological Commission. Bulletin No. 3. The Cotton Worm. Summary of its natural history, with an account of its enemies, and the best means of controlling it; being a report of progress of the work of the Commission. By Chas. V. Riley, M.A., Ph.D. 8vo. pp. 144, pl. i. Washington, Government Printing Office. 1880.

United States Entomological Commission. Bulletin No. 5. The Chinch-bug. Its history, characters, and habits, and the means of destroying it or counteracting its injuries. By Cyrus Thomas, Ph.D. Washington, 1879 (issued 1880). 8^o, pp. 44.

Memoires de la Société Royale des Sciences de Liège. 8vo. Tomes VII et VIII 2^e Série. Bruxelles. Decembre, 1878. From the society.

The Journal of the Franklin Institute. No. 650, Vol. cix. 1880. From the institute.

Eine neue Gattung von Scincoiden, aus New-Caledonien. By W. Peters. (Verbal communication on *Saurosincus*. Extr. from Sitzb. der Gesell. naturforschender Freunde zu Berlin. 16 Dec. 1879.) 8vo. pp. 149-159. From the author.

Über die Eintheilung de Cœcilien und insbesondere über die Gattung Rhinatrema und Gymnopsis. By W. Peters. 8vo. pp. 624-943, pl. i. (Extr. from Monatsber. d. Königl. Akad. d. Wissenschaften zu Berlin, Nov. 1879.) From the author.

A new species of Ophrydium (*O. adæ*). By Hermann C. Evarts, M.D. 8vo. pp. 7. (Repr. Am. Monthly Microscop. Journ. Vol. I, No. I.) From the author.

Über neue Amphibien des Königl. Zoologischen Museums (*Euprepes*, *Acontias*, *Typhlops*, *Zamenis*, *Spilotes*, *Ædipus*.) By W. Peters. 8vo. pp. 773-779, pl. I. (Extr. Monatsb. d. Königl. Akad. d. Wissenschaften zu Berlin. Aug. 1879.) From the author.

Über die Amphisbænen und eine zu denselben gehörige neue Art. (Lepidosternon Wuchereri.) By W. Peters. 8vo. pp. 273-277, pl. I. (Extr. Monatsb. d. Königl. Akad. d. Wissenschaften zu Berlin, März, 1879.) From the author.

Über die von Hrn. Dr. G. A. Fischer in Ost afrika, von Mombas bis in das Pokômo-Land und das südliche Galla Land, unternommenen Reise eingesammelten Säugethiere. By W. Peters. 8vo. pp. 829-832. (Extr. Monatsb. d. Königl. Akad. d. Wiss. zu Berlin, Oct. 1879.) From the author.

Embryogénie de l'*Asteriscus verruculatus*. Par le Dr. J. Barrois. 8vo. pp. 8, pls. II. (Extr. de Journ. de l'Anat. et de Physiologie.) Paris. From the author.

Recherches sur le Developpement des Araignées. (Communication preliminaire.) Par le Dr. J. Barrois. 8vo. pp. 529-547, pl. I. (Extr. de Journ. de l'Anat. et de Physiologie.) Paris. From the author.

Sur quelques espèces nouvelles au peu connues du terrain crétacé du Nord de la France. Par Charles Barrois. 8vo. pp. 449-457, pls. III. (Extr. des Ann. de la Soc. Geol. du Nord. T. IV. 1876.) From the author.

Sur l'entendue du Système tertiaire inferieur dans les Ardennes et sur les argiles a Silex. Par Dr. Chas. Barrois. 8vo. pp. 340-376. (Extr. des Ann. de la Soc. Geol. du Nord. T. VI, 1879.) From the author.

Le Marbre griotte des Pyrénées. Par le Dr. Charles Barrois. 8vo. pp. 270-300. (Extr. des Ann. de la Soc. Géol. du Nord. Tom. VI, 1879.) From the author.

Catalogue of the Pacific Coast Fungi. (Published under the direction of the California Academy of Sciences.) By H. W. Harkness, M.D., and Justin P. Moore, A.M. 8vo. pp. 46. From the author.

Prodrome des Plesiosauriens et des Élasmosauriens des Formations Jurassiques Supérieures de Boulogne-sur-Mer. Par M. H-E. Sauvage. 8vo. pp. 38, pls. II. (Extr. from Ann. des Sciences Naturelles 6^e Série. T. VIII.) From the author.

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GENERAL NOTES.

BOTANY.

FERTILIZATION OF FLOWERS BY HUMMING-BIRDS.—Prof. Beale's note under the above title in the NATURALIST for February induces me to send the following observations, made in Alabama in 1879, which may be of some interest. The ruby throat was often seen to get nectar from both sets of glands at the base of the involucre about cotton flowers; it was constantly seen at the flowers of the low *Oenothera sinuata*; very often about those of the May-pop (*Passiflora incarnata*), the white flowered buck-eye (*Æsculus parviflora*), the wild and cultivated morning-glories, the yellow day-lily, the white oleander, several sorts of Pelargonium, the lemon, fuchsia, larkspur, malvaviscus, zinnia, "sage-bush," and "osier willow." One night just about twilight one was seen at the flowers of the gourd; and I several times saw them about the flowers of *Lobelia cardinalis*, where they usually acted much like the one spoken of in the NATURALIST for 1879, p. 431, though the flowers were by no means always visited regularly from the bottom of the raceme up. The flowers of *Erythrina herbacea* were often visited by these birds, and appear to be adapted to